Table 1：Outstanding Notional Amounts of Derivatives by Risk and Trading Purpose

NT$ millions

End of Month	Interest Rate Contracts		Foreign Exchange Contracts		Equity-Linked Contracts		Commodity Contracts		Credit Contracts		Other Contracts		Total contracts		
	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Total
1998 3	225,312	29,346	1,690,319	66,727	82	0	3,123	0	0	0	0	0	1,918,836	96,073	2,014,909
6	248,715	42,463	2,299,127	78,830	102	0	2,918	0	0	0	0	0	2,550,862	121,293	2,672,155
9	349,308	49,327	1,780,328	96,331	0	0	2,304	0	0	0	0	0	2,131,940	145,658	2,277,598
12	329,935	51,529	1,225,165	79,790	0	0	2,151	0	0	0	0	0	1,557,251	131,319	1,688,570
1999 3	347,509	49,771	1,349,459	102,132	0	0	1,216	0	0	0	0	0	1,698,184	151,903	1,850,087
6	417,252	65,493	1,396,244	99,597	0	0	5,843	0	0	0	0	0	1,819,339	165,090	1,984,429
9	399,415	61,501	1,453,846	102,369	0	0	12,353	0	0	0	0	0	1,865,614	163,870	2,029,484
12	439,116	48,484	1,509,048	136,782	0	0	12,537	0	0	0	0	0	1,960,701	185,266	2,145,967
2000 3	470,975	57,670	1,662,986	161,607	0	0	17,985	0	0	0	0	0	2,151,946	219,277	2,371,223
6	488,240	57,957	1,751,585	135,551	0	0	18,057	0	0	0	0	0	2,257,882	193,508	2,451,390
9	547,000	55,589	1,988,532	59,402	0	0	39,356	0	0	0	0	0	2,574,888	114,991	2,689,879
12	635,127	67,664	2,260,616	93,170	0	0	47,596	0	0	0	0	0	2,943,339	160,834	3,104,173
2001 3	649,950	60,818	2,157,827	325,816	1,070	0	41,457	0	0	0	0	0	2,850,304	386,634	3,236,938
6	815,661	71,080	2,672,923	273,651	3,116	0	46,052	0	0	0	0	0	3,537,752	344,731	3,882,483
9	1,018,169	72,107	3,042,830	311,256	3,369	1,072	46,082	0	0	0	0	0	4,110,450	384,435	4,494,885
12	1,226,902	81,870	3,291,855	71,190	4,038	1,480	47,132	0	0	0	0	0	4,569,927	154,540	4,724,467
2002 3	1,616,841	82,002	3,657,379	71,712	15,553	622	37,941	0	0	0	0	0	5,327,714	154,336	5,482,050
6	2,243,114	168,367	4,433,742	62,318	21,927	864	41,507	0	0	0	0	0	6,740,290	231,549	6,971,839
9	2,869,422	2,374	4,608,514	0	53,952	0	62,313	0	0	0	0	0	7,594,201	2,374	7,596,575
12	2,870,937	158,907	4,065,728	75,059	33,846	1,503	79,589	0	0	0	0	0	7,050,100	235,469	7,285,569
2003 3	3,432,309	198,613	4,587,618	70,798	42,529	590	66,732	0	0	0	0	0	8,129,188	270,001	8,399,189
6	4,168,510	251,200	5,326,257	91,376	42,142	208	58,335	0	0	0	0	0	9,595,244	342,784	9,938,028
9	5,075,381	275,061	6,983,411	85,457	34,202	0	89,693	0	0	0	0	0	12,182,687	360,518	12,543,205
12	5,922,899	365,203	7,022,296	97,679	56,953	0	97,039	0	0	0	0	0	13,099,187	462,882	13,562,069
2004 3	7,374,861	500,213	9,891,102	290,777	45,058	0	104,552	0	0	0	0	0	17,415,573	790,990	18,206,563
6	9,301,422	523,263	9,975,399	331,376	52,121	1	133,440	0	25,075	1,126	0	0	19,487,457	855,766	20,343,223
9	10,352,335	641,037	9,167,785	479,796	47,656	13	142,826	0	43,847	3,978	0	0	19,754,449	1,124,824	20,879,273
12	10,794,204	881,294	9,467,741	402,604	43,056	1	145,976	0	38,274	4,769	0	0	20,489,251	1,288,668	21,777,919
2005 3	12,260,523	828,587	9,845,739	450,650	53,146	355	163,755	0	40,404	3,319	0	0	22,363,567	1,282,911	23,646,478
6	14,241,064	685,442	10,167,446	269,782	41,435	0	181,596	0	48,394	4,447	4,468	0	24,684,403	959,671	25,644,074
9	16,694,884	677,852	10,375,928	286,088	45,878	0	172,111	0	60,155	4,505	4,640	0	27,353,596	968,445	28,322,041
12	18,330,961	592,438	10,497,504	286,111	39,880	260	185,564	0	81,739	1,330	4,312	0	29,139,960	880,139	30,020,099
2006 3	20,778,918	516,854	10,677,357	23,006	41,735	58	152,014	0	95,920	973	4,122	0	31,750,066	540,891	32,290,957
6	24,180,102	513,142	11,359,643	22,843	47,464	14	130,321	0	91,441	227	3,870	0	35,812,841	536,226	36,349,067
9	25,743,324	556,557	11,808,706	23,611	44,875	0	79,104	0	104,083	4,567	3,846	0	37,783,938	584,735	38,368,673
12	26,661,300	545,075	13,014,989	23,055	42,525	0	104,947	0	124,643	5,768	9,499	0	39,957,903	573,898	40,531,801
2007 3	27,980,714	530,959	14,399,933	21,793	105,760	0	116,670	0	133,385	9,527	9,568	0	42,746,030	562,279	43,308,309
6	33,529,941	537,425	15,064,341	22,845	149,605	0	92,297	0	159,375	9,467	10,021	0	49,005,580	569,737	49,575,317
9	37,180,888	542,214	14,692,743	21,114	59,033	0	98,552	0	167,084	14,072	9,998	0	52,208,298	577,400	52,785,698
12	38,634,421	273,457	15,385,282	19,971	54,315	0	123,847	0	165,401	17,468	9,978	0	54,373,244	310,896	54,684,140
2008 3	39,391,441	266,675	17,603,060	50,231	60,892	0	150,474	0	165,760	22,625	9,661	0	57,381,288	339,531	57,720,819
6	39,822,474	269,023	17,293,587	14,215	54,734	0	152,996	0	199,782	4,963	9,959	0	57,533,532	288,201	57,821,733
9	41,553,765	258,832	18,703,009	14,823	45,526	0	216,611	0	203,263	515	10,257	0	60,732,431	274,170	61,006,601
12	42,638,631	233,522	16,288,792	12,715	36,151	0	297,697	0	160,985	522	10,029	0	59,432,285	246,759	59,679,044
2009 3	46,166,269	222,015	16,615,609	12,259	33,904	0	314,585	0	157,960	436	10,201	0	63,298,528	234,710	63,533,238
6	49,197,477	202,803	16,931,087	16,521	32,042	0	288,682	0	140,058	422	10,032	0	66,599,378	219,746	66,819,124
9	47,058,936	193,685	17,188,828	21,416	35,220	0	245,174	0	137,118	414	9,933	0	64,675,209	215,515	64,890,724
12	46,200,070	206,616	16,404,840	279,036	53,622	0	191,518	0	128,325	412	9,925	0	62,988,300	486,064	63,474,364
2010 3	38,920,000	220,298	18,699,483	37,437	49,170	0	142,308	0	123,098	409	9,880	0	57,943,939	258,144	58,202,083
6	35,246,576	261,403	24,965,786	55,678	33,645	32	114,389	0	99,232	415	12,900	0	60,472,528	317,528	60,790,056
9	32,965,840	289,708	19,816,829	58,182	28,403	2,186	72,899	0	84,610	403	0	0	52,968,581	350,479	53,319,060
12	31,930,499	286,817	18,810,484	62,723	43,060	1,770	32,199	0	76,243	391	0	0	50,892,485	351,701	51,244,186
2011 3	32,029,756	305,245	19,321,143	72,120	53,168	1,149	38,686	0	76,443	378	0	0	51,519,196	378,892	51,898,088
6	29,977,240	286,506	20,627,906	74,937	53,111	0	66,830	0	67,178	371	0	0	50,792,265	361,814	51,154,079
9	31,935,076	278,804	23,197,012	44,010	31,930	0	105,252	0	98,776	393	0	0	55,368,046	323,207	55,691,253
12	27,783,498	282,712	20,724,389	36,859	28,077	0	103,859	0	87,441	390	0	0	48,727,264	319,961	49,047,225
2012 3	26,789,039	285,027	21,665,672	29,838	34,438	0	112,115	0	76,973	85	0	0	48,678,237	314,950	48,993,187
6	24,875,758	291,169	23,585,345	28,435	30,942	0	79,750	0	90,980	86	0	0	48,662,775	319,690	48,982,465
9	23,682,186	275,443	23,121,174	26,300	36,753	0	49,463	0	82,304	84	0	0	46,971,880	301,827	47,273,707
12	23,013,463	275,014	22,447,331	28,167	46,503	0	39,639	0	62,132	83	0	0	45,609,068	303,264	45,912,332
2013 3	21,646,621	283,888	27,055,180	27,407	56,185	0	51,457	0	63,433	86	0	0	48,872,876	311,381	49,184,257
6	21,359,107	270,777	29,743,251	39,141	59,622	395	53,881	0	56,843	86	0	0	51,272,704	310,399	51,583,103
9	20,383,977	266,212	30,275,960	30,434	67,994	205	41,708	0	54,882	85	0	0	50,824,521	296,936	51,121,457
12	19,305,032	261,785	29,515,448	32,057	79,728	165	32,363	0	49,706	86	0	0	48,982,277	294,093	49,276,370
2014 3	19,228,150	237,118	38,983,968	26,671	98,819	165	35,481	0	46,593	87	0	0	58,393,011	264,041	58,657,052
6	17,687,631	224,299	36,142,509	72,996	118,861	100	30,102	0	43,501	0	0	0	54,022,604	297,395	54,319,999
9	17,571,523	210,996	38,947,251	78,736	100,717	0	37,866	0	45,458	0	0	0	56,702,815	289,732	56,992,547
12	15,843,757	181,599	39,295,803	62,912	92,429	0	29,276	0	44,448	0	0	0	55,305,713	244,511	55,550,224
2015 3	15,489,272	183,957	40,309,615	59,303	70,349	0	46,795	0	45,164	0	0	0	55,961,195	243,260	56,204,455
6	14,593,570	177,713	40,515,635	61,601	61,324	0	33,845	0	39,944	0	0	0	55,244,318	239,314	55,483,632

Table 1：Outstanding Notional Amounts of Derivatives by Risk and Trading Purpose

NT$ millions

End of Month	Interest Rate Contracts		Foreign Exchange Contracts		Equity-Linked Contracts		Commodity Contracts		Credit Contracts		Other Contracts		Total contracts		
	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Trading	Non-trading	Total
9	14,772,760	163,598	43,104,799	56,391	55,441	0	58,050	0	48,298	0	0	0	58,039,348	219,989	58,259,337
12	14,738,768	151,385	40,891,721	58,833	37,928	150	46,127	0	49,027	0	0	0	55,763,571	210,368	55,973,939
2016 3	15,739,488	125,721	38,780,192	45,532	44,788	11,439	38,612	0	57,379	0	0	0	54,660,459	182,692	54,843,151
6	15,023,857	125,254	38,228,725	50,811	33,904	3,520	30,532	0	58,298	0	0	0	53,375,316	179,585	53,554,901
9	14,808,366	119,557	34,928,323	53,766	31,989	180	25,556	0	52,510	0	0	0	49,846,744	173,503	50,020,247
12	15,305,051	124,857	34,345,093	50,899	26,053	180	22,692	0	52,645	0	0	0	49,751,534	175,936	49,927,470
2017 3	15,450,126	156,019	33,853,414	48,619	26,941	321	23,820	0	44,367	0	0	0	49,398,668	204,959	49,603,627
6	15,035,553	163,636	32,726,490	41,151	30,726	230	18,481	0	46,317	0	0	0	47,857,567	205,017	48,062,584
9	14,940,390	171,551	33,866,650	40,237	23,961	230	15,077	0	45,029	0	0	0	48,891,107	212,018	49,103,125
12	15,255,359	176,172	32,282,278	33,241	27,147	180	9,632	0	40,496	0	0	0	47,614,912	209,593	47,824,505
2018 3	17,450,279	193,569	33,870,099	71,364	33,300	0	8,778	0	45,696	0	0	0	51,408,152	264,933	51,673,085
6	19,072,795	199,738	38,909,214	61,515	31,526	0	7,671	0	48,233	0	0	0	58,069,439	261,253	58,330,692
9	18,972,881	212,658	39,193,501	106,860	27,010	0	7,343	0	51,615	0	0	0	58,252,350	319,518	58,571,868
12	20,028,947	210,055	39,244,546	171,540	26,437	0	6,155	0	54,798	0	0	0	59,360,883	381,595	59,742,478
2019 3	20,726,461	207,812	39,051,201	193,318	20,658	0	5,945	0	53,178	0	0	0	59,857,443	401,130	60,258,573
6	21,873,339	217,629	38,135,084	233,091	23,251	0	5,867	0	51,003	0	0	0	60,088,544	450,720	60,539,264
9	22,044,188	235,246	37,696,686	183,241	32,538	0	6,172	0	50,020	0	0	0	59,829,604	418,487	60,248,091
12	21,955,529	251,370	36,052,926	129,678	33,181	0	6,375	0	47,407	0	0	0	58,095,418	381,048	58,476,466
2020 3	23,178,961	283,190	37,888,073	144,294	31,359	0	10,392	0	51,817	0	0	0	61,160,602	427,484	61,588,086
6	22,244,266	294,902	36,442,885	144,744	21,233	0	10,992	0	46,339	0	0	0	58,765,715	439,646	59,205,361
9	21,808,680	301,944	35,642,140	134,550	18,768	0	13,788	0	43,463	0	0	0	57,526,839	436,494	57,963,333
12	20,946,514	306,966	32,978,590	138,477	15,697	0	6,401	0	34,470	0	0	0	53,981,672	445,443	54,427,115
2021 3	21,132,266	309,366	34,409,755	127,230	20,932	0	9,743	0	31,769	0	0	0	55,604,465	436,596	56,041,061
6	21,308,469	324,851	33,758,598	124,453	18,325	0	7,350	0	27,721	0	0	0	55,120,463	449,304	55,569,767
9	21,596,368	333,647	35,133,120	152,115	21,746	0	6,272	0	30,032	0	0	0	56,787,538	485,762	57,273,300
12	21,855,301	340,644	36,091,020	211,647	22,241	0	8,485	0	32,192	0	0	0	58,009,239	552,291	58,561,530
2022 3	24,149,026	360,763	40,895,698	175,388	31,986	0	9,713	0	37,695	0	0	0	65,124,118	536,151	65,660,269
6	26,008,905	365,287	42,586,408	206,483	24,245	0	13,874	0	39,575	0	0	0	68,673,007	571,770	69,244,777
9	28,041,553	418,368	47,683,802	202,463	29,563	0	18,505	0	44,882	0	0	0	75,818,305	620,831	76,439,136
12	28,405,542	408,977	41,162,821	292,249	24,098	0	20,240	0	40,928	0	0	0	69,653,629	701,226	70,354,855
2023 3	28,607,487	409,897	42,965,218	221,498	35,825	0	20,316	0	37,803	0	0	0	71,666,649	631,395	72,298,044
6	28,874,422	420,378	42,971,576	171,842	40,351	0	14,641	0	33,889	0	0	0	71,934,879	592,220	72,527,099
9	28,773,454	428,908	45,396,309	156,599	54,050	0	14,999	0	37,809	0	0	0	74,276,621	585,507	74,862,128
12	29,475,294	421,798	43,700,045	415,440	46,474	0	12,700	0	31,999	0	0	0	73,266,512	837,238	74,103,750
2024 3	32,577,257	450,780	48,129,361	283,790	59,014	0	11,296	0	33,213	0	0	0	80,810,141	734,570	81,544,711
6	34,858,931	432,476	49,995,492	243,993	67,672	0	14,903	0	31,092	0	0	0	84,968,090	676,469	85,644,559
9	39,466,171	440,420	48,607,385	267,698	64,428	0	23,048	0	33,771	0	0	0	88,194,803	708,118	88,902,921
12	41,814,524	461,652	46,513,510	454,926	46,874	0	24,769	0	30,682	0	0	0	88,430,359	916,578	89,346,937
2025 3	44,518,094	480,613	47,898,819	318,783	60,176	0	20,284	0	38,717	0	0	0	92,536,090	799,396	93,335,486
6	45,572,482	452,432	40,580,605	225,794	41,488	0	16,587	0	38,498	0	0	0	86,249,660	678,226	86,927,886
9	47,775,496	522,859	44,006,830	240,917	47,314	0	15,251	0	14,459	23,960	0	0	91,859,350	787,736	92,647,086
12	51,290,283	565,084	42,570,573	236,286	63,388	0	18,675	0	13,622	25,023	0	0	93,956,541	826,393	94,782,934
2026 3	54,285,598	601,060	44,277,211	133,375	118,570	0	15,093	0	13,700	28,741	0	0	98,710,172	763,176	99,473,348
6	59,348,155	679,190	46,085,617	75,434	129,566	0	14,577	0	7,389	32,520	0	0	105,585,304	787,144	106,372,448
9	62,811,160	703,927	45,716,284	74,902	131,095	0	13,069	0	10,031	32,056	0	0	108,681,639	810,885	109,492,524

Notes:
1. Interest rate contracts include single-currency contracts only.
2. The data before Jan. 1998 are not available.
3.The statistic data of Credit contracts start from Jan. 2004.
4.The statistic data of Other contracts start from Jan. 2005.
5. Foreign exchange contracts before Jan. 2005 inclueded gold contracts.
6.Sources: all domestic banks and local branches of foreign banks.

Table 2：Outstanding Notional Amounts of Single-currency Interest Rate Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
1998 3	76,460	155,945	17,120	3,426	0	1,707	0	0	254,658
6	10,409	245,777	17,083	17,428	412	69	0	0	291,178
9	11,937	342,394	21,881	22,227	0	196	0	0	398,635
12	12,621	330,917	18,802	19,124	0	0	0	0	381,464
1999 3	12,813	343,292	20,422	20,753	0	0	0	0	397,280
6	38,812	401,133	21,239	21,561	0	0	0	0	482,745
9	24,599	394,893	20,553	20,871	0	0	0	0	460,916
12	32,407	417,315	18,923	18,955	0	0	0	0	487,600
2000 3	18,990	460,306	25,905	23,444	0	0	0	0	528,645
6	33,762	455,309	33,704	23,422	0	0	0	0	546,197
9	53,582	493,570	28,940	26,497	0	0	0	0	602,589
12	117,430	527,882	28,418	28,401	0	0	330	330	702,791
2001 3	78,796	570,632	30,646	30,694	0	0	0	0	710,768
6	103,319	714,858	34,332	34,232	0	0	0	0	886,741
9	126,542	879,170	34,714	34,615	8,118	7,117	0	0	1,090,276
12	142,669	1,082,632	36,799	39,090	0	7,582	0	0	1,308,772
2002 3	239,670	1,375,845	40,185	40,982	1,330	831	0	0	1,698,843
6	337,262	1,901,300	72,448	97,316	2,282	873	0	0	2,411,481
9	526,807	2,193,274	66,847	82,494	2,374	0	0	0	2,871,796
12	317,284	2,479,077	102,907	129,881	0	695	0	0	3,029,844
2003 3	237,453	3,073,374	167,134	146,161	6,800	0	0	0	3,630,922
6	281,490	3,701,901	238,501	185,194	10,892	1,732	0	0	4,419,710
9	221,422	4,492,767	305,196	297,220	6,961	26,876	0	0	5,350,442
12	170,794	5,415,160	355,754	322,379	3,546	20,469	0	0	6,288,102
2004 3	156,146	6,567,226	424,529	701,967	5,197	20,009	0	0	7,875,074
6	191,713	8,188,463	499,553	898,788	13,970	32,198	0	0	9,824,685
9	280,870	8,928,950	654,531	1,089,634	6,313	33,074	0	0	10,993,372
12	223,740	9,528,405	794,719	1,096,987	3,286	28,361	0	0	11,675,498
2005 3	267,103	10,666,985	892,038	1,249,111	3,464	10,409	0	0	13,089,110
6	166,815	12,095,080	1,124,486	1,503,371	5,282	31,472	0	0	14,926,506
9	255,821	13,753,191	1,457,850	1,846,770	12,538	46,566	0	0	17,372,736
12	485,243	15,008,803	1,485,904	1,895,827	24,399	23,223	0	0	18,923,399
2006 3	705,187	16,500,953	1,784,245	2,271,398	22,439	11,355	65	130	21,295,772
6	599,072	19,306,140	2,111,074	2,647,233	6,801	22,924	0	0	24,693,244
9	305,163	20,994,571	2,144,620	2,745,644	65,750	44,133	0	0	26,299,881
12	171,407	21,919,735	2,272,045	2,791,689	30,542	20,957	0	0	27,206,375
2007 3	104,464	23,028,127	2,179,506	2,812,178	167,053	220,345	0	0	28,511,673
6	102,881	25,735,320	2,815,575	3,362,378	1,011,494	1,032,778	6,940	0	34,067,366
9	255,745	27,680,363	3,262,061	3,746,726	1,312,801	1,463,308	945	1,153	37,723,102
12	347,267	28,482,205	3,353,313	3,852,454	1,384,215	1,487,935	489	0	38,907,878
2008 3	303,794	31,072,796	3,490,235	3,813,337	526,461	451,493	0	0	39,658,116
6	161,795	32,721,473	2,724,640	3,351,050	558,940	566,071	7,528	0	40,091,497
9	107,014	34,967,853	2,622,630	3,180,170	457,279	457,382	14,137	6,132	41,812,597

Table 2：Outstanding Notional Amounts of Single-currency Interest Rate Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
12	114,035	36,224,069	2,660,349	2,885,906	484,361	494,322	9,111	0	42,872,153
2009 3	59,188	40,385,252	2,457,983	2,617,220	402,891	388,497	77,253	0	46,388,284
6	73,114	44,269,480	2,075,841	2,174,460	371,100	358,242	74,804	3,239	49,400,280
9	54,059	42,517,575	1,910,541	1,978,056	359,714	349,891	76,637	6,148	47,252,621
12	22,177	42,133,750	1,860,209	1,888,989	222,522	213,534	65,505	0	46,406,686
2010 3	32,175	34,867,257	1,900,588	1,888,788	180,502	206,404	64,584	0	39,140,298
6	22,701	31,462,399	1,859,639	1,703,507	136,038	139,523	183,972	200	35,507,979
9	24,801	29,576,222	1,695,857	1,615,160	140,165	140,693	62,650	0	33,255,548
12	10,013	29,055,258	1,484,955	1,550,675	34,837	77,010	0	4,568	32,217,316
2011 3	3,954	29,417,794	1,383,314	1,470,698	7,980	39,300	21	11,940	32,335,001
6	12,321	27,732,302	1,167,435	1,232,496	9,061	98,588	225	11,318	30,263,746
9	19,987	29,746,965	1,157,136	1,224,246	10,728	46,874	0	7,944	32,213,880
12	2,235	26,011,609	967,267	1,029,022	17,018	39,059	0	0	28,066,210
2012 3	12,113	25,348,298	780,489	864,642	1,472	67,052	0	0	27,074,066
6	14,907	23,638,117	692,874	747,662	6,613	66,754	0	0	25,166,927
9	9,644	22,725,637	558,613	626,273	2,448	35,014	0	0	23,957,629
12	2,876	22,287,357	444,571	496,502	1,075	56,096	0	0	23,288,477
2013 3	2,957	21,082,534	351,336	414,703	12,501	66,478	0	0	21,930,509
6	2,981	20,865,615	332,053	392,376	6,281	30,578	0	0	21,629,884
9	7,013	19,889,224	314,512	381,290	11,782	46,368	0	0	20,650,189
12	1,072	18,844,755	293,289	353,409	19,900	54,392	0	0	19,566,817
2014 3	1,095	18,773,662	257,726	320,357	28,636	83,792	0	0	19,465,268
6	0	17,236,596	237,126	289,203	55,530	93,475	0	0	17,911,930
9	0	17,171,020	234,069	298,009	18,067	42,691	0	18,663	17,782,519
12	0	15,428,186	209,467	329,421	11,391	46,891	0	0	16,025,356
2015 3	40,823	15,009,692	208,880	348,810	11,825	53,199	0	0	15,673,229
6	71,472	14,135,150	183,813	317,594	4,821	58,433	0	0	14,771,283
9	99,378	14,267,435	173,339	344,626	3,534	48,046	0	0	14,936,358
12	99,198	14,249,004	162,830	330,778	3,917	44,426	0	0	14,890,153
2016 3	96,840	15,193,764	173,078	343,954	5,163	52,410	0	0	15,865,209
6	0	14,475,797	173,937	399,800	9,946	89,631	0	0	15,149,111
9	0	14,269,285	152,954	383,072	19,486	103,126	0	0	14,927,823
12	3,874	14,779,116	175,884	369,348	47,046	54,317	323	0	15,429,908
2017 3	0	14,854,488	151,965	470,140	3,156	126,396	0	0	15,606,145
6	0	14,398,999	139,068	472,571	74,716	113,835	0	0	15,199,189
9	0	14,280,012	126,244	493,049	67,447	144,462	727	0	15,111,941
12	0	14,573,583	103,299	569,747	32,552	152,231	119	0	15,431,531
2018 3	0	16,058,064	211,244	1,020,937	149,374	203,425	804	0	17,643,848
6	0	17,522,392	234,629	1,135,245	143,542	236,725	0	0	19,272,533
9	0	17,474,037	205,352	1,138,076	185,733	182,341	0	0	19,185,539
12	0	18,335,787	213,694	1,204,502	114,378	370,641	0	0	20,239,002
2019 3	0	19,372,600	194,453	1,126,946	79,101	161,173	0	0	20,934,273
6	0	20,535,554	343,541	1,059,283	73,479	79,111	0	0	22,090,968
9	0	20,603,678	423,094	1,049,216	96,361	106,278	807	0	22,279,434

Table 2：Outstanding Notional Amounts of Single-currency Interest Rate Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
12	0	20,695,589	403,779	987,574	36,235	82,518	602	602	22,206,899
2020 3	0	21,942,520	463,282	871,048	24,789	160,209	303	0	23,462,151
6	8,888	21,123,091	451,698	773,566	13,577	167,162	1,186	0	22,539,168
9	2,796	20,718,334	437,352	757,249	9,259	185,488	146	0	22,110,624
12	0	19,984,035	412,394	717,967	8,314	130,770	0	0	21,253,480
2021 3	11,202	20,066,275	457,295	712,603	16,644	177,613	0	0	21,441,632
6	400	19,702,020	769,936	945,740	13,570	201,654	0	0	21,633,320
9	150	20,111,742	701,833	852,585	25,648	238,057	0	0	21,930,015
12	100	20,489,988	664,574	775,029	13,579	252,675	0	0	22,195,945
2022 3	400	22,482,269	795,547	902,847	34,479	294,247	0	0	24,509,789
6	100	24,323,228	862,942	919,752	60,132	208,038	0	0	26,374,192
9	0	26,229,122	987,023	1,077,622	16,729	149,425	0	0	28,459,921
12	0	26,633,736	957,365	1,062,291	48,743	112,384	0	0	28,814,519
2023 3	200	27,002,874	879,299	1,026,098	13,114	95,799	0	0	29,017,384
6	0	27,237,511	896,911	1,030,278	64,422	65,678	0	0	29,294,800
9	0	26,962,164	922,867	1,058,988	81,543	176,800	0	0	29,202,362
12	0	27,890,541	896,848	1,009,690	24,192	75,821	0	0	29,897,092
2024 3	250	30,860,722	886,131	990,360	134,032	156,542	0	0	33,028,037
6	0	33,146,490	948,012	1,027,416	93,804	75,685	0	0	35,291,407
9	100	37,779,643	946,288	1,045,031	90,406	43,724	687	712	39,906,591
12	0	39,973,148	966,062	1,085,397	113,903	136,236	712	718	42,276,176
2025 3	800	42,721,719	1,007,222	1,132,629	50,886	85,267	0	183	44,998,706
6	100	43,858,307	973,643	1,053,180	71,441	67,918	0	325	46,024,914
9	0	46,048,103	1,011,938	1,080,177	104,764	52,724	0	649	48,298,355
12	0	49,593,656	1,013,737	1,118,426	76,069	53,476	0	0	51,855,364
2026 3	850	52,337,983	1,129,320	1,284,087	75,440	58,335	0	643	54,886,658
6	0	57,204,006	1,261,528	1,424,407	94,725	42,679	0	0	60,027,345
9	0	60,678,035	1,333,665	1,416,991	62,963	23,433	0	0	63,515,087

Notes:

1. The data before Jan. 1998 are not available.
2. Sources: all domestic banks and local branches of foreign banks.

Table 3：Outstanding Notional Amounts of Foreign Exchange Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
1998 3	1,270,465	233,379	128,583	124,619	0	0	0	0	1,757,046
6	1,644,993	349,731	198,674	184,559	0	0	0	0	2,377,957
9	1,063,119	310,568	253,186	249,786	0	0	0	0	1,876,659
12	735,597	269,347	151,706	148,305	0	0	0	0	1,304,955
1999 3	831,119	292,342	166,112	162,001	0	0	17	0	1,451,591
6	851,734	315,428	171,737	156,942	0	0	0	0	1,495,841
9	816,480	295,634	229,810	214,291	0	0	0	0	1,556,215
12	815,196	437,764	199,045	193,825	0	0	0	0	1,645,830
2000 3	876,295	308,512	320,378	319,408	0	0	0	0	1,824,593
6	833,186	324,605	340,938	340,535	0	0	23,936	23,936	1,887,136
9	954,388	361,433	349,915	341,476	0	0	20,361	20,361	2,047,934
12	1,323,468	435,697	276,354	271,325	0	0	23,471	23,471	2,353,786
2001 3	1,299,925	476,772	360,430	346,516	0	0	0	0	2,483,643
6	1,628,117	599,062	365,087	354,308	0	0	0	0	2,946,574
9	1,685,097	870,109	400,459	398,421	0	0	0	0	3,354,086
12	1,732,963	876,701	382,939	370,442	0	0	0	0	3,363,045
2002 3	1,784,658	947,132	505,358	491,943	0	0	0	0	3,729,091
6	2,248,782	938,368	668,119	640,791	0	0	0	0	4,496,060
9	2,237,380	1,012,386	684,292	674,456	0	0	0	0	4,608,514
12	1,981,831	1,063,394	550,086	534,677	697	10,102	0	0	4,140,787
2003 3	2,058,906	1,222,248	650,674	709,909	14,768	1,911	0	0	4,658,416
6	2,594,688	1,381,573	713,966	722,867	2,249	1,730	280	280	5,417,633
9	3,623,116	1,732,399	836,211	877,076	0	0	46	20	7,068,868
12	3,328,836	2,084,769	883,205	823,165	0	0	0	0	7,119,975
2004 3	4,452,373	2,479,690	1,637,224	1,612,592	0	0	0	0	10,181,879
6	4,772,518	2,725,419	1,431,370	1,377,468	0	0	0	0	10,306,775
9	4,697,579	2,551,276	1,232,062	1,166,198	0	0	233	233	9,647,581
12	4,850,704	2,784,861	1,125,069	1,108,815	0	0	448	448	9,870,345
2005 3	4,916,946	3,408,588	985,572	985,283	0	0	0	0	10,296,389
6	5,318,038	3,632,458	745,719	741,013	0	0	0	0	10,437,228
9	5,452,334	3,878,201	679,052	652,429	0	0	0	0	10,662,016
12	6,772,286	2,825,627	602,594	583,108	0	0	0	0	10,783,615
2006 3	6,437,685	3,029,840	626,194	606,644	0	0	0	0	10,700,363
6	7,268,491	2,998,294	571,970	543,731	0	0	0	0	11,382,486
9	7,105,599	3,599,272	578,475	548,971	0	0	0	0	11,832,317
12	7,637,996	3,922,278	769,802	707,968	0	0	0	0	13,038,044
2007 3	9,285,405	3,623,216	786,609	726,496	0	0	0	0	14,421,726
6	9,848,450	4,066,175	603,546	569,015	0	0	0	0	15,087,186
9	8,975,708	4,167,006	803,206	767,937	0	0	0	0	14,713,857
12	9,246,182	4,559,234	814,800	785,037	0	0	0	0	15,405,253
2008 3	10,677,303	5,051,566	971,560	952,862	0	0	0	0	17,653,291
6	10,393,781	5,078,831	928,019	907,171	0	0	0	0	17,307,802

Table 3：Outstanding Notional Amounts of Foreign Exchange Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
9	11,554,477	5,538,353	800,020	824,982	0	0	0	0	18,717,832
12	9,636,947	5,464,598	599,281	600,681	0	0	0	0	16,301,507
2009 3	9,886,693	5,492,682	625,674	622,819	0	0	0	0	16,627,868
6	10,886,059	4,402,149	823,050	836,350	0	0	0	0	16,947,608
9	10,736,985	4,652,123	908,564	912,572	0	0	0	0	17,210,244
12	10,415,944	4,800,516	724,717	742,699	0	0	0	0	16,683,876
2010 3	11,761,115	4,911,634	1,021,033	1,043,138	0	0	0	0	18,736,920
6	13,381,261	9,695,570	958,801	985,832	0	0	0	0	25,021,464
9	12,901,730	4,770,925	1,096,986	1,105,370	0	0	0	0	19,875,011
12	12,212,826	4,854,871	902,265	903,245	0	0	0	0	18,873,207
2011 3	12,089,192	5,074,862	1,112,254	1,116,955	0	0	0	0	19,393,263
6	13,005,433	4,941,868	1,373,952	1,381,590	0	0	0	0	20,702,843
9	14,570,414	5,588,891	1,526,501	1,555,216	0	0	0	0	23,241,022
12	15,829,896	2,447,880	1,216,481	1,266,991	0	0	0	0	20,761,248
2012 3	15,732,208	2,478,844	1,717,264	1,767,194	0	0	0	0	21,695,510
6	16,799,782	2,439,093	2,153,205	2,221,700	0	0	0	0	23,613,780
9	16,020,503	2,376,138	2,364,387	2,386,446	0	0	0	0	23,147,474
12	16,220,115	2,336,834	1,940,210	1,978,339	0	0	0	0	22,475,498
2013 3	17,295,655	2,423,571	3,618,725	3,744,636	0	0	0	0	27,082,587
6	17,793,348	3,002,988	4,439,454	4,546,602	0	0	0	0	29,782,392
9	17,867,273	2,720,770	4,868,141	4,850,210	0	0	0	0	30,306,394
12	18,762,047	2,257,966	4,222,289	4,305,203	0	0	0	0	29,547,505
2014 3	20,052,039	1,960,669	8,394,388	8,603,543	0	0	0	0	39,010,639
6	19,618,996	1,931,275	7,247,204	7,418,030	0	0	0	0	36,215,505
9	21,804,556	2,000,857	7,540,078	7,680,496	0	0	0	0	39,025,987
12	23,256,935	1,960,781	7,032,465	7,107,703	155	676	0	0	39,358,715
2015 3	23,687,205	2,280,027	7,194,701	7,205,186	744	1,055	0	0	40,368,918
6	23,330,981	2,118,324	7,545,509	7,580,219	547	1,656	0	0	40,577,236
9	27,303,941	2,263,626	6,781,309	6,803,475	1,769	7,070	0	0	43,161,190
12	27,846,685	2,251,988	5,430,967	5,407,937	3,326	9,651	0	0	40,950,554
2016 3	27,713,160	2,211,382	4,454,166	4,436,252	5,109	5,655	0	0	38,825,724
6	28,425,372	2,548,404	3,644,874	3,649,904	5,139	3,952	951	940	38,279,536
9	26,802,121	2,584,373	2,798,007	2,784,686	3,080	4,779	2,255	2,788	34,982,089
12	27,895,135	2,492,775	1,993,723	1,997,518	4,367	5,642	3,263	3,569	34,395,992
2017 3	28,678,285	2,142,447	1,541,892	1,521,085	4,611	4,411	4,200	5,102	33,902,033
6	28,660,690	1,901,441	1,103,903	1,079,335	6,771	7,402	3,925	4,174	32,767,641
9	30,280,928	1,683,262	960,014	951,259	9,429	7,019	8,091	6,885	33,906,887
12	29,312,487	1,617,666	688,996	670,117	8,026	5,789	7,421	5,017	32,315,519
2018 3	30,899,917	1,498,459	763,408	753,440	4,846	10,138	6,559	4,696	33,941,463
6	35,685,283	1,622,059	816,276	814,661	10,792	11,639	5,412	4,607	38,970,729
9	35,723,064	1,811,337	872,344	860,250	9,297	15,246	4,868	3,955	39,300,361
12	36,292,565	1,936,309	588,212	575,650	7,684	10,152	2,936	2,578	39,416,086

Table 3：Outstanding Notional Amounts of Foreign Exchange Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
2019 3	35,819,299	2,009,393	710,937	687,106	8,408	4,730	2,602	2,044	39,244,519
6	34,908,945	1,908,274	778,469	754,356	5,208	6,728	3,426	2,769	38,368,175
9	34,411,516	2,035,919	715,313	697,232	6,218	6,507	3,698	3,524	37,879,927
12	33,164,238	1,876,056	569,208	555,294	7,565	5,919	2,326	1,998	36,182,604
2020 3	34,535,560	1,965,878	762,121	751,846	9,520	5,016	1,263	1,163	38,032,367
6	33,519,047	1,665,458	700,265	689,567	9,890	2,444	554	404	36,587,629
9	32,635,248	1,524,958	803,517	798,553	9,237	3,476	938	763	35,776,690
12	30,444,766	1,529,595	564,117	565,020	7,853	4,635	564	517	33,117,067
2021 3	31,885,286	1,323,051	657,559	658,224	9,404	2,748	355	358	34,536,985
6	31,299,160	1,253,456	661,917	656,242	9,754	2,365	77	80	33,883,051
9	32,453,713	1,388,151	721,014	715,773	5,432	1,152	0	0	35,285,235
12	33,688,387	1,457,786	581,340	572,419	2,145	590	0	0	36,302,667
2022 3	38,007,744	1,493,731	786,210	782,733	364	304	0	0	41,071,086
6	39,546,787	1,573,274	834,367	838,354	55	54	0	0	42,792,891
9	44,515,763	1,540,033	909,548	920,506	191	224	0	0	47,886,265
12	38,906,126	1,340,193	603,298	605,085	184	184	0	0	41,455,070
2023 3	40,277,551	1,238,747	830,550	839,214	333	321	0	0	43,186,716
6	40,413,557	1,182,577	766,889	780,215	97	83	0	0	43,143,418
9	42,695,209	1,003,244	914,267	939,519	390	279	0	0	45,552,908
12	41,447,850	893,742	875,926	897,864	30	73	0	0	44,115,485
2024 3	45,277,578	911,187	1,086,804	1,135,250	1,266	1,066	0	0	48,413,151
6	46,832,270	971,716	1,182,500	1,250,752	1,162	1,085	0	0	50,239,485
9	45,156,140	991,439	1,337,151	1,390,185	17	151	0	0	48,875,083
12	43,270,508	1,066,447	1,278,660	1,352,506	82	233	0	0	46,968,436
2025 3	44,641,070	1,140,040	1,163,272	1,272,891	110	220	0	0	48,217,603
6	37,515,770	1,106,610	1,046,234	1,136,901	528	356	0	0	40,806,399
9	40,647,551	1,185,231	1,175,811	1,238,442	672	40	0	0	44,247,747
12	39,305,671	1,146,265	1,144,870	1,209,275	601	178	0	0	42,806,860
2026 3	40,109,389	1,395,549	1,408,861	1,495,396	1,039	352	0	0	44,410,586
6	41,373,933	1,592,479	1,559,465	1,634,095	794	285	0	0	46,161,051
9	40,980,443	1,563,517	1,590,326	1,656,625	262	13	0	0	45,791,186

Notes:

1. The data before Jan. 1998 are not available.
2. Sources: all domestic banks and local branches of foreign banks.

Table 4： Outstanding Notional Amounts of Equity-Linked Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
1998 3	0	0	41	41	0	0	0	0	82
6	0	0	51	51	0	0	0	0	102
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
1999 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2000 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2001 3	0	0	535	535	0	0	0	0	1,070
6	0	0	1,558	1,558	0	0	0	0	3,116
9	0	1,072	1,689	1,680	0	0	0	0	4,441
12	0	980	2,026	2,512	0	0	0	0	5,518
2002 3	0	1,092	8,187	6,896	0	0	0	0	16,175
6	0	864	11,299	10,628	0	0	0	0	22,791
9	0	1,006	35,670	17,276	0	0	0	0	53,952
12	0	1,503	17,177	16,669	0	0	0	0	35,349
2003 3	0	590	21,231	20,437	48	50	0	763	43,119
6	208	0	19,040	19,075	39	119	286	3,583	42,350
9	0	0	16,810	17,306	0	78	8	0	34,202
12	0	1,831	27,333	27,705	0	84	0	0	56,953
2004 3	0	4,368	19,156	20,619	4	586	0	325	45,058
6	0	8,926	20,684	22,312	0	76	1	123	52,122
9	0	8,492	19,487	19,597	0	80	11	2	47,669
12	0	12,362	15,046	15,232	0	416	0	1	43,057
2005 3	0	11,540	17,820	23,079	0	1,060	2	0	53,501
6	0	11,514	11,640	17,950	0	322	0	9	41,435
9	0	11,482	12,300	21,526	0	570	0	0	45,878
12	0	8,029	11,421	19,837	0	853	0	0	40,140
2006 3	0	7,015	12,827	21,063	21	743	124	0	41,793
6	0	20,309	9,114	16,060	24	1,405	296	270	47,478
9	0	23,416	7,864	10,598	18	2,576	403	0	44,875
12	0	24,882	7,500	8,519	0	1,210	414	0	42,525
2007 3	0	89,553	6,903	8,352	0	703	203	46	105,760
6	0	91,951	9,780	10,608	7,237	996	15,399	13,634	149,605
9	0	23,645	5,901	6,492	2,771	832	9,007	10,385	59,033
12	0	21,741	7,477	8,749	701	785	6,990	7,872	54,315
2008 3	27	20,453	6,134	7,583	4,221	1,148	12,319	9,007	60,892
6	0	19,401	5,984	7,890	454	697	8,417	11,891	54,734

Table 4： Outstanding Notional Amounts of Equity-Linked Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
9	0	14,165	5,994	7,587	0	1,435	9,963	6,382	45,526
12	0	13,457	7,487	7,404	0	408	4,580	2,815	36,151
2009 3	0	12,295	6,557	5,846	313	288	5,538	3,067	33,904
6	0	9,915	6,216	5,557	0	247	6,859	3,248	32,042
9	0	9,344	4,636	3,857	3,205	334	10,321	3,523	35,220
12	0	8,480	4,310	3,676	4,869	49	20,123	12,115	53,622
2010 3	0	7,045	3,891	3,587	2,137	162	21,999	10,349	49,170
6	0	7,091	5,498	4,682	203	1,173	7,793	7,237	33,677
9	0	5,570	3,465	6,891	1,783	181	6,170	6,529	30,589
12	0	5,099	2,338	11,928	1,741	220	15,974	7,530	44,830
2011 3	0	5,016	4,826	16,805	56	1,715	15,701	10,198	54,317
6	101	4,558	5,147	11,205	1	614	19,717	11,768	53,111
9	14	5,567	4,526	11,250	153	998	5,421	4,001	31,930
12	0	6,148	4,918	9,952	499	418	4,712	1,430	28,077
2012 3	16	7,309	4,991	9,100	954	1,870	6,686	3,512	34,438
6	0	8,192	5,153	8,653	191	2,143	3,472	3,138	30,942
9	0	9,132	5,943	9,990	212	484	6,126	4,866	36,753
12	0	11,997	6,720	10,430	542	850	9,385	6,579	46,503
2013 3	0	16,467	7,641	10,779	63	1,860	10,890	8,485	56,185
6	0	18,266	8,220	11,534	1,690	1,523	8,424	10,360	60,017
9	0	30,688	7,046	9,299	757	2,540	9,107	8,762	68,199
12	0	32,109	7,126	8,093	3,512	1,139	13,489	14,425	79,893
2014 3	0	31,397	8,756	10,335	1,440	2,758	21,593	22,705	98,984
6	0	59,591	13,180	14,628	1,629	1,477	15,783	12,673	118,961
9	0	40,072	13,222	15,457	2,952	675	12,562	15,777	100,717
12	0	45,458	13,947	16,707	1,906	470	9,448	4,493	92,429
2015 3	0	29,431	8,374	11,583	271	745	13,056	6,889	70,349
6	0	30,139	5,481	9,008	908	348	6,664	8,776	62,324
9	0	26,212	5,152	8,340	71	988	8,016	6,662	55,441
12	0	15,983	2,670	5,730	387	903	6,097	6,308	38,078
2016 3	0	15,317	3,186	16,467	457	1,814	6,793	12,193	56,227
6	0	14,054	3,146	8,845	259	930	4,557	5,633	37,424
9	0	13,532	2,917	4,818	109	1,432	4,532	4,829	32,169
12	0	13,723	2,085	4,228	302	554	3,024	2,317	26,233
2017 3	0	12,535	1,893	2,318	1,248	543	4,943	3,782	27,262
6	0	12,355	1,809	2,069	1,527	1,677	4,720	6,799	30,956
9	0	11,551	1,497	1,809	647	744	4,352	3,591	24,191
12	0	11,831	1,370	1,629	376	1,215	3,297	7,609	27,327
2018 3	0	11,584	4,314	4,813	1,066	1,518	3,546	6,459	33,300
6	0	10,463	4,926	5,131	714	1,350	4,867	4,075	31,526
9	0	9,932	3,779	3,984	387	718	3,865	4,345	27,010
12	0	9,529	2,924	3,581	245	942	1,937	7,279	26,437

Table 4： Outstanding Notional Amounts of Equity-Linked Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
2019 3	0	9,638	1,213	1,567	398	514	2,378	4,950	20,658
6	0	10,796	920	1,024	659	1,110	1,923	6,819	23,251
9	0	12,862	610	790	1,508	1,960	5,950	8,858	32,538
12	0	16,318	569	844	1,421	2,453	4,469	7,107	33,181
2020 3	0	8,307	447	648	1,196	4,284	6,074	10,403	31,359
6	0	8,253	280	581	1,022	3,055	3,728	4,314	21,233
9	0	8,051	326	578	832	1,231	2,967	4,783	18,768
12	0	8,536	427	551	1,103	1,775	2,290	1,015	15,697
2021 3	0	10,031	797	1,132	3,077	1,585	1,494	2,816	20,932
6	0	10,740	1,317	1,519	2,492	663	844	750	18,325
9	0	11,420	1,392	1,581	2,731	804	1,667	2,151	21,746
12	0	11,232	1,659	2,051	3,668	837	1,493	1,301	22,241
2022 3	0	13,263	1,620	2,339	3,914	1,511	4,074	5,265	31,986
6	0	12,970	1,318	2,288	3,367	2,694	633	975	24,245
9	0	12,420	1,050	2,205	1,440	6,017	3,194	3,237	29,563
12	0	15,080	3,047	4,279	178	416	257	841	24,098
2023 3	0	18,425	5,365	6,481	1,007	3,681	245	621	35,825
6	0	19,100	5,891	6,954	808	7,279	185	134	40,351
9	0	24,253	8,918	9,850	1,515	8,722	365	427	54,050
12	0	21,338	8,668	9,253	369	6,619	227	0	46,474
2024 3	0	25,689	10,236	10,906	1,002	10,286	501	394	59,014
6	0	26,424	10,450	11,212	1,436	17,609	239	302	67,672
9	0	25,501	9,859	10,337	3,275	14,580	45	831	64,428
12	0	20,636	7,942	8,393	403	8,659	32	809	46,874
2025 3	0	22,574	8,234	8,513	1,111	17,332	966	1,446	60,176
6	0	16,127	5,308	5,668	1,267	11,333	667	1,118	41,488
9	0	20,285	7,321	8,330	2,215	5,391	1,170	2,602	47,314
12	0	25,124	9,641	10,787	2,072	13,589	68	2,105	63,386
2026 3	0	29,287	10,577	11,834	7,365	55,064	301	4,142	118,570
6	0	34,016	10,502	11,557	2,302	60,896	791	9,502	129,566
9	0	41,595	11,875	13,229	563	48,528	1,123	14,182	131,095

Notes:

1. The data before Jan. 1998 are not available.
2. Sources: all domestic banks and local branches of foreign banks.

Table 5：Outstanding Notional Amounts of Commodity Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
1998 3	0	1,269	927	927	0	0	0	0	3,123
6	0	1,912	503	503	0	0	0	0	2,918
9	0	1,912	196	196	0	0	0	0	2,304
12	0	1,785	183	183	0	0	0	0	2,151
1999 3	0	840	188	188	0	0	0	0	1,216
6	0	2,005	1,919	1,919	0	0	0	0	5,843
9	0	3,345	4,504	4,504	0	0	0	0	12,353
12	0	3,627	4,455	4,455	0	0	0	0	12,537
2000 3	0	4,119	6,933	6,933	0	0	0	0	17,985
6	0	5,327	6,365	6,365	0	0	0	0	18,057
9	0	5,934	16,711	16,711	0	0	0	0	39,356
12	0	4,514	21,541	21,541	0	0	0	0	47,596
2001 3	155	3,568	18,867	18,867	0	0	0	0	41,457
6	81	3,507	21,232	21,232	0	0	0	0	46,052
9	0	6,375	19,853	19,854	0	0	0	0	46,082
12	0	3,762	21,685	21,685	0	0	0	0	47,132
2002 3	0	3,017	17,462	17,462	0	0	0	0	37,941
6	0	4,233	18,637	18,637	0	0	0	0	41,507
9	0	8,647	26,833	26,833	0	0	0	0	62,313
12	0	9,967	34,811	34,811	0	0	0	0	79,589
2003 3	118	5,610	30,502	30,502	0	0	0	0	66,732
6	0	3,287	27,524	27,524	0	0	0	0	58,335
9	0	5,469	42,112	42,112	0	0	0	0	89,693
12	0	4,451	46,294	46,294	0	0	0	0	97,039
2004 3	0	4,030	50,261	50,261	0	0	0	0	104,552
6	0	2,756	65,342	65,342	0	0	0	0	133,440
9	0	2,480	70,173	70,173	0	0	0	0	142,826
12	0	1,660	72,158	72,158	0	0	0	0	145,976
2005 3	0	1,065	81,345	81,345	0	0	0	0	163,755
6	0	1,054	90,271	90,271	0	0	0	0	181,596
9	0	1,107	85,502	85,502	0	0	0	0	172,111
12	0	1,800	91,882	91,882	0	0	0	0	185,564
2006 3	81	1,280	75,331	75,322	0	0	0	0	152,014
6	12	1,463	64,423	64,423	0	0	0	0	130,321
9	12	1,454	38,819	38,819	0	0	0	0	79,104
12	12	1,101	51,917	51,917	0	0	0	0	104,947
2007 3	12	1,456	57,601	57,601	0	0	0	0	116,670
6	0	1,637	45,330	45,330	0	0	0	0	92,297
9	57	2,695	47,900	47,900	0	0	0	0	98,552
12	181	3,002	60,332	60,332	0	0	0	0	123,847
2008 3	138	2,522	73,907	73,907	0	0	0	0	150,474
6	338	2,969	74,844	74,844	0	1	0	0	152,996

Table 5：Outstanding Notional Amounts of Commodity Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
9	118	5,750	105,293	105,293	0	157	0	0	216,611
12	1,852	4,180	145,767	145,767	131	0	0	0	297,697
2009 3	3,520	4,126	153,239	153,239	183	0	76	202	314,585
6	2,454	15,630	135,252	135,252	5	0	66	23	288,682
9	1,806	12,985	115,108	115,108	11	0	69	87	245,174
12	2,853	8,396	90,020	89,909	289	0	5	46	191,518
2010 3	2,873	7,220	65,996	65,996	101	0	80	42	142,308
6	4,129	7,964	51,124	50,946	189	0	7	30	114,389
9	4,526	5,004	31,766	30,905	507	0	71	120	72,899
12	4,193	4,178	11,795	11,356	626	0	38	13	32,199
2011 3	3,479	11,024	12,123	11,770	21	80	46	143	38,686
6	1,936	12,475	26,175	25,973	242	0	14	15	66,830
9	1,978	13,814	44,272	44,593	0	348	72	175	105,252
12	689	11,415	45,863	45,836	4	0	15	37	103,859
2012 3	3,288	9,938	48,906	49,672	120	11	78	102	112,115
6	1,040	14,987	31,309	32,180	124	10	35	65	79,750
9	964	13,594	16,670	17,809	21	54	95	256	49,463
12	464	13,360	12,507	13,177	62	0	15	54	39,639
2013 3	1,332	14,224	17,279	18,257	91	17	127	130	51,457
6	2,625	14,141	18,249	17,321	1,173	256	42	74	53,881
9	1,142	13,979	12,655	12,888	332	336	20	356	41,708
12	876	13,044	9,225	9,003	11	92	16	96	32,363
2014 3	1,430	15,040	8,267	8,644	1,095	903	66	36	35,481
6	589	9,602	9,300	9,915	466	162	59	9	30,102
9	251	12,552	11,631	12,603	450	247	52	80	37,866
12	173	11,678	8,508	8,449	233	24	137	74	29,276
2015 3	172	12,051	16,292	16,373	805	822	134	146	46,795
6	63	13,495	10,132	10,055	42	27	7	24	33,845
9	219	18,355	19,269	19,354	415	349	46	43	58,050
12	301	18,170	13,637	13,874	84	12	38	11	46,127
2016 3	135	16,796	10,415	10,622	236	257	82	69	38,612
6	105	18,578	5,662	5,740	345	90	5	7	30,532
9	36	15,573	3,940	4,887	395	573	70	82	25,556
12	190	15,412	3,300	3,439	83	255	6	7	22,692
2017 3	420	17,712	2,166	3,258	36	195	4	29	23,820
6	410	12,645	1,896	3,135	75	294	8	18	18,481
9	346	10,120	1,436	2,817	86	222	3	47	15,077
12	21	7,686	894	894	25	102	5	5	9,632
2018 3	0	5,218	1,208	1,967	177	141	12	55	8,778
6	511	3,804	870	2,175	121	184	6	0	7,671
9	491	4,176	974	1,337	240	92	15	18	7,343
12	121	2,465	1,641	1,634	140	137	0	17	6,155
2019 3	36	2,629	1,473	1,474	94	195	27	17	5,945
6	19	2,507	1,364	1,364	404	163	16	30	5,867

Table 5：Outstanding Notional Amounts of Commodity Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
9	98	2,217	1,478	1,466	504	260	80	69	6,172
12	9	2,476	1,771	1,740	149	174	25	31	6,375
2020 3	286	3,398	2,531	2,507	761	743	92	74	10,392
6	461	2,708	3,076	2,919	880	893	28	27	10,992
9	564	4,845	4,044	3,965	206	33	67	64	13,788
12	793	2,800	1,259	1,233	154	162	0	0	6,401
2021 3	1,016	3,268	2,259	2,259	364	521	28	28	9,743
6	930	2,869	1,638	1,625	223	65	0	0	7,350
9	1,159	1,761	1,486	1,479	179	208	0	0	6,272
12	1,325	2,563	2,295	2,186	39	77	0	0	8,485
2022 3	2,350	2,261	2,465	2,465	3	152	10	7	9,713
6	921	4,749	3,788	3,788	353	275	0	0	13,874
9	1,090	5,541	5,895	5,895	26	58	0	0	18,505
12	586	10,542	4,523	4,523	20	46	0	0	20,240
2023 3	117	10,950	4,579	4,554	71	45	0	0	20,316
6	270	5,654	4,279	4,279	99	60	0	0	14,641
9	28	9,335	2,751	2,751	36	98	0	0	14,999
12	0	7,165	2,702	2,702	120	11	0	0	12,700
2024 3	0	5,441	2,900	2,900	51	4	0	0	11,296
6	301	6,844	3,839	3,839	55	25	0	0	14,903
9	152	17,821	2,522	2,495	44	14	0	0	23,048
12	0	19,566	2,596	2,596	0	11	0	0	24,769
2025 3	100	14,380	2,896	2,896	10	3	0	0	20,285
6	89	12,860	1,700	1,724	98	116	0	0	16,587
9	33	10,851	2,159	2,189	0	19	0	0	15,251
12	0	7,215	5,669	5,696	83	14	0	0	18,677
2026 3	40	8,323	3,069	3,544	58	59	0	0	15,093
6	42	8,603	2,515	3,092	196	129	0	0	14,577
9	0	6,798	3,079	3,186	6	0	0	0	13,069

Notes:

1. The data before Jan. 1998 are not available.
2. Sources: all domestic banks and local branches of foreign banks.

Table 6：Outstanding Notional Amounts of Credit Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
2004 6	0	25,390	811	0	0	0	0	0	26,201
9	0	46,568	816	441	0	0	0	0	47,825
12	0	41,480	769	794	0	0	0	0	43,043
2005 3	0	42,926	797	0	0	0	0	0	43,723
6	0	52,593	153	95	0	0	0	0	52,841
9	0	63,980	367	313	0	0	0	0	64,660
12	0	83,069	0	0	0	0	0	0	83,069
2006 3	0	96,893	0	0	0	0	0	0	96,893
6	0	91,668	0	0	0	0	0	0	91,668
9	0	108,650	0	0	0	0	0	0	108,650
12	0	130,411	0	0	0	0	0	0	130,411
2007 3	0	134,212	8,700	0	0	0	0	0	142,912
6	0	160,142	8,700	0	0	0	0	0	168,842
9	0	174,356	6,800	0	0	0	0	0	181,156
12	0	177,669	5,200	0	0	0	0	0	182,869
2008 3	0	183,185	5,200	0	0	0	0	0	188,385
6	0	199,545	5,200	0	0	0	0	0	204,745
9	0	199,878	3,900	0	0	0	0	0	203,778
12	0	157,607	3,900	0	0	0	0	0	161,507
2009 3	0	154,496	3,900	0	0	0	0	0	158,396
6	0	137,580	2,900	0	0	0	0	0	140,480
9	0	134,218	3,314	0	0	0	0	0	137,532
12	0	125,837	2,900	0	0	0	0	0	128,737
2010 3	0	121,107	2,400	0	0	0	0	0	123,507
6	0	97,247	2,400	0	0	0	0	0	99,647
9	0	82,613	2,400	0	0	0	0	0	85,013
12	0	74,234	2,400	0	0	0	0	0	76,634
2011 3	0	75,321	1,500	0	0	0	0	0	76,821
6	0	66,049	1,500	0	0	0	0	0	67,549
9	0	97,669	1,500	0	0	0	0	0	99,169
12	0	86,331	1,500	0	0	0	0	0	87,831
2012 3	0	75,558	1,500	0	0	0	0	0	77,058
6	0	89,566	1,500	0	0	0	0	0	91,066
9	0	80,888	1,500	0	0	0	0	0	82,388
12	0	60,715	1,500	0	0	0	0	0	62,215
2013 3	0	63,219	300	0	0	0	0	0	63,519
6	0	56,629	300	0	0	0	0	0	56,929
9	0	54,967	0	0	0	0	0	0	54,967
12	0	49,792	0	0	0	0	0	0	49,792
2014 3	0	46,680	0	0	0	0	0	0	46,680
6	0	43,501	0	0	0	0	0	0	43,501
9	0	45,458	0	0	0	0	0	0	45,458
12	0	44,448	0	0	0	0	0	0	44,448
2015 3	0	45,164	0	0	0	0	0	0	45,164
6	0	39,944	0	0	0	0	0	0	39,944
9	0	48,298	0	0	0	0	0	0	48,298
12	0	49,027	0	0	0	0	0	0	49,027
2016 3	0	57,379	0	0	0	0	0	0	57,379
6	0	58,298	0	0	0	0	0	0	58,298
9	0	52,510	0	0	0	0	0	0	52,510

Table 6：Outstanding Notional Amounts of Credit Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
12	0	52,645	0	0	0	0	0	0	52,645
2017 3	0	44,367	0	0	0	0	0	0	44,367
6	0	46,317	0	0	0	0	0	0	46,317
9	0	45,029	0	0	0	0	0	0	45,029
12	0	40,496	0	0	0	0	0	0	40,496
2018 3	0	45,696	0	0	0	0	0	0	45,696
6	0	48,233	0	0	0	0	0	0	48,233
9	0	51,615	0	0	0	0	0	0	51,615
12	0	54,798	0	0	0	0	0	0	54,798
2019 3	0	53,178	0	0	0	0	0	0	53,178
6	0	51,003	0	0	0	0	0	0	51,003
9	0	50,020	0	0	0	0	0	0	50,020
12	0	47,407	0	0	0	0	0	0	47,407
2020 3	0	51,817	0	0	0	0	0	0	51,817
6	0	46,339	0	0	0	0	0	0	46,339
9	0	43,463	0	0	0	0	0	0	43,463
12	0	34,470	0	0	0	0	0	0	34,470
2021 3	0	31,769	0	0	0	0	0	0	31,769
6	0	27,721	0	0	0	0	0	0	27,721
9	0	30,032	0	0	0	0	0	0	30,032
12	0	32,192	0	0	0	0	0	0	32,192
2022 3	0	37,695	0	0	0	0	0	0	37,695
6	0	39,575	0	0	0	0	0	0	39,575
9	0	44,882	0	0	0	0	0	0	44,882
12	0	40,928	0	0	0	0	0	0	40,928
2023 3	0	37,803	0	0	0	0	0	0	37,803
6	0	33,889	0	0	0	0	0	0	33,889
9	0	37,809	0	0	0	0	0	0	37,809
12	0	31,999	0	0	0	0	0	0	31,999
2024 3	0	33,213	0	0	0	0	0	0	33,213
6	0	31,092	0	0	0	0	0	0	31,092
9	0	33,771	0	0	0	0	0	0	33,771
12	0	30,682	0	0	0	0	0	0	30,682
2025 3	0	38,717	0	0	0	0	0	0	38,717
6	0	38,498	0	0	0	0	0	0	38,498
9	0	38,419	0	0	0	0	0	0	38,419
12	0	38,645	0	0	0	0	0	0	38,645
2026 3	0	42,441	0	0	0	0	0	0	42,441
6	0	39,909	0	0	0	0	0	0	39,909
9	0	42,087	0	0	0	0	0	0	42,087

Notes:

1. The statistic data of Credit contracts start from Jan. 2004.
2. Sources: all domestic banks and local branches of foreign banks.

Table 7：Outstanding Notional Amounts of Other Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
2005 3	0	0	0	0	0	0	0	0	0
6	0	0	2,234	2,234	0	0	0	0	4,468
9	0	0	2,320	2,320	0	0	0	0	4,640
12	0	0	2,156	2,156	0	0	0	0	4,312
2006 3	0	0	2,061	2,061	0	0	0	0	4,122
6	0	0	1,935	1,935	0	0	0	0	3,870
9	0	0	1,923	1,923	0	0	0	0	3,846
12	0	9,499	0	0	0	0	0	0	9,499
2007 3	0	9,568	0	0	0	0	0	0	9,568
6	0	10,021	0	0	0	0	0	0	10,021
9	0	9,998	0	0	0	0	0	0	9,998
12	0	9,978	0	0	0	0	0	0	9,978
2008 3	0	9,661	0	0	0	0	0	0	9,661
6	0	9,959	0	0	0	0	0	0	9,959
9	0	10,257	0	0	0	0	0	0	10,257
12	0	10,029	0	0	0	0	0	0	10,029
2009 3	0	10,201	0	0	0	0	0	0	10,201
6	0	10,032	0	0	0	0	0	0	10,032
9	0	9,933	0	0	0	0	0	0	9,933
12	0	9,925	0	0	0	0	0	0	9,925
2010 3	0	9,880	0	0	0	0	0	0	9,880
6	0	0	12,900	0	0	0	0	0	12,900
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2011 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2012 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2013 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2014 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2015 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2016 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2017 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0

Table 7：Outstanding Notional Amounts of Other Derivatives by Instrument

NT$ millions

End of Month	Over-the-counter Contracts				Exchange-trade Contracts				Total Contracts
	Forwards	Swaps	Bought Options	Sold Options	Futures-long Positions	Futures-short Positions	Bought Options	Sold Options	
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2018 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2019 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2020 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2021 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2022 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2023 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2024 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2025 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
2026 3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0

Notes:
1. The statistic data of Credit contracts start from Jan. 2005.
2. Sources: all domestic banks and local branches of foreign banks.